

SEQUENCE LISTING

<110> Nestec SA

<120> Osteoprotegerin in Milk

<130> 88265-6852

<150> WO 2002 EP 02912

<151> 2003-03-15

<150> EP 20010108414

<151> 2001-04-03

<160> 7

<170> PatentIn version 3.1

<210> 1

<211> 380

<212> PRT

<213> homo sapiens

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Glu Thr Phe Pro Pro Lys Tyr Leu His Tyr Asp Glu Glu Thr Ser His
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Gln Leu Leu Cys Asp Lys Cys Pro Pro Gly Thr Tyr Leu Lys Gln His
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Cys Thr Ala Lys Trp Lys Thr Val Cys Ala Pro Cys Pro Asp His Tyr
35 40 45

Tyr Thr Asp Ser Trp His Thr Ser Asp Glu Cys Leu Tyr Cys Ser Pro
50 55 60

Val Cys Lys Glu Leu Gln Tyr Val Lys Gln Glu Cys Asn Arg Thr His
65 70 75 80

Asn Arg Val Cys Glu Cys Lys Glu Gly Arg Tyr Leu Glu Ile Glu Phe
85 90 95

Cys Leu Lys His Arg Ser Cys Pro Pro Gly Phe Gly Val Val Gln Ala
100 105 110

Gly Thr Pro Glu Arg Asn Thr Val Cys Lys Arg Cys Pro Asp Gly Phe
115 120 125

Phe Ser Asn Glu Thr Ser Ser Lys Ala Pro Cys Arg Lys His Thr Asn
130 135 140

Cys Ser Val Phe Gly Leu Leu Leu Thr Gln Lys Gly Asn Ala Thr His
145 150 155 160

Asp Asn Ile Cys Ser Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile
165 170 175

Asp Val Thr Leu Cys Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr
180 185 190

Lys Phe Thr Pro Asn Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly
195 200 205

Thr Lys Val Asn Ala Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser
210 215 220

Ser Gln Glu Gln Thr Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn
225 230 235 240

Lys Ala Gln Asp Ile Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys
245 250 255

Glu Asn Ser Val Gln Arg His Ile Gly His Ala Asn Leu Thr Phe Glu
260 265 270

Gln Leu Arg Ser Leu Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala
275 280 285

Glu Asp Ile Glu Lys Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile
290 295 300

Leu Lys Leu Leu Ser Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr
305 310 315 320

Leu Lys Gly Leu Met His Ala Leu Lys His Ser Lys Thr Tyr His Phe
325 330 335

Pro Lys Thr Val Thr Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His
340 345 350

Ser Phe Thr Met Tyr Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile

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Pro Leu Ala Ala Pro Ala Pro Ala Pro Asp Ala Ala Pro Ala Ala Val
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Pro Glu Gly Pro Ala Ala Ala Tyr Ser Ser Ile Leu Ser Val Val
35 40 45

Ala Lys Gln Ser Lys Lys Phe Lys His His Lys Arg Asp Leu Asp Glu
50 55 60

Lys Asp Gln Phe Ile Val Val Phe Asp Ser Ser Ala Thr Val Asp Gln
65 70 75 80

Ile Ala Ser Glu Ile Gln Lys Leu Asp Ser Leu Val Asp Glu Asp Ser
85 90 95

Ser Asn Gly Ile Thr Ser Ala Leu Asp Leu Pro Val Tyr Thr Asp Gly
100 105 110

Ser Gly Phe Leu Gly Phe Val Gly Lys Phe Asn Ser Thr Ile Val Asp
115 120 125

Lys Leu Lys Glu Ser Ser Val Leu Thr Val Glu Pro Asp Thr Ile Val
130 135 140

Ser Leu Pro Glu Ile Pro Ala Ser Ser Ala Ala Lys Arg Glu Thr Phe
145 150 155 160

Pro Pro Lys Tyr Leu His Tyr Asp Glu Glu Thr Ser His Gln Leu Leu
165 170 175

Cys Asp Lys Cys Pro Pro Gly Thr Tyr Leu Lys Gln His Cys Thr Ala
180 185 190

Lys Trp Lys Thr Val Cys Ala Pro Cys Pro Asp His Tyr Tyr Thr Asp

195

200

205

Ser Trp His Thr Ser Asp Glu Cys Leu Tyr Cys Ser Pro Val Cys Lys
210 215 220

Glu Leu Gln Tyr Val Lys Gln Glu Cys Asn Arg Thr His Asn Arg Val
225 230 235 240

Cys Glu Cys Lys Glu Gly Arg Tyr Leu Glu Ile Glu Phe Cys Leu Lys
245 250 255

His Arg Ser Cys Pro Pro Gly Phe Gly Val Val Gln Ala Gly Thr Pro
260 265 270

Glu Arg Asn Thr Val Cys Lys Arg Cys Pro Asp Gly Phe Phe Ser Asn
275 280 285

Glu Thr Ser Ser Lys Ala Pro Cys Arg Lys His Thr Asn Cys Ser Val
290 295 300

Phe Gly Leu Leu Leu Thr Gln Lys Gly Asn Ala Thr His Asp Asn Ile
305 310 315 320

Cys Ser Gly Asn Ser Glu Ser Thr Gln Lys Cys Gly Ile Asp Val Thr
325 330 335

Leu Cys Glu Glu Ala Phe Phe Arg Phe Ala Val Pro Thr Lys Phe Thr
340 345 350

Pro Asn Trp Leu Ser Val Leu Val Asp Asn Leu Pro Gly Thr Lys Val
355 360 365

Asn Ala Glu Ser Val Glu Arg Ile Lys Arg Gln His Ser Ser Gln Glu
370 375 380

Gln Thr Phe Gln Leu Leu Lys Leu Trp Lys His Gln Asn Lys Ala Gln
385 390 395 400

Asp Ile Val Lys Lys Ile Ile Gln Asp Ile Asp Leu Cys Glu Asn Ser
405 410 415

Val Gln Arg His Ile Gly His Ala Asn Leu Thr Phe Glu Gln Leu Arg
420 425 430

Ser Leu Met Glu Ser Leu Pro Gly Lys Lys Val Gly Ala Glu Asp Ile
435 440 445

Glu Lys Thr Ile Lys Ala Cys Lys Pro Ser Asp Gln Ile Leu Lys Leu
450 455 460

Leu Ser Leu Trp Arg Ile Lys Asn Gly Asp Gln Asp Thr Leu Lys Gly
465 470 475 480

Leu Met His Ala Leu Lys His Ser Lys Thr Tyr His Phe Pro Lys Thr
485 490 495

Val Thr Gln Ser Leu Lys Lys Thr Ile Arg Phe Leu His Ser Phe Thr
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Met Tyr Lys Leu Tyr Gln Lys Leu Phe Leu Glu Met Ile Gly Asn Gln
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Val Gln Ser Val Lys Ile Ser Cys Leu
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tattgaccc tcgtaaaaaca gogtgcagcg gcacattgga catgctaacc tcaccccg 840
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